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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/315,058	05/20/1999	YOSHIHIRO ONO	OSP-8180	5968

7590 12/13/2001

WHITHAM CURTIS & WHITHAM
RESTON INTERNATIONAL CENTER
11800 SUNRISE VALLEY DR
SUITE 900
RESTON, VA 20191

EXAMINER

OPSASNICK, MICHAEL N

ART UNIT PAPER NUMBER

2645

DATE MAILED: 12/13/2001

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/315,058

Applicant(s)

ONO

Examiner

Michael N. Opsasnick

Art Unit

2645

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 May 1999.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u> . | 6) <input type="checkbox"/> Other: |

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

4. Claim 3 recites the limitation "said dummy code" in claim 3, line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

Art Unit: 2645

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Henley et al (5526353).

As per claim 1, Henley et al (5526353) teaches:

“a voice transceiver....analog data” as compressed voice codes (col. 10 lines 9-11)

“an expansion means....digital voice data” as expanding compressed data (col. 10 lines 12-15)

“a buffer.....voice data” as dual port memory (col. 10 lines 54-58)

“a detection means....detection result” as when buffer is full and reassembly of data when acquired (as col. 14 lines 10-55)

“a conversion means....said detection signal.....and speaker means for emitting said analog voice data into the air” as converting data back to analog for listener (col. 7 lines 27-33)

As per claim 2, Henley et al (5526353) teaches:

“further comprising a data control means for controlling.....based on said detection signal, wherein said data control means outputs a dummy code.....buffer

Art Unit: 2645

means is less than a required amount.....when said buffer means approaches an overflow amount.....does not allow the output of said digital voice data to said conversion means” as inserting white noise when there is not enough data and decimation when there is too much data (col. 15 lines 7-46)

As per claim 3, Henley et al (5526353) teaches:

“when said dummy code is inputted into said expansion means.....outputs digital voice data in which the strength of said compressed voice code inputted immediately prior to said dummy signal is reduced” as transmitted silence is reduced compared to previously accepted signal levels (col. 15 lines 1-16).

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Henley et al (5526353) in view of Li et al (5617423).

As per claim 4, Henley et al (5526353) teaches a microphone means for inputting voice data (col. 10 lines 9-11). Henley et al (5526353) does not explicitly teach echo

Art Unit: 2645

component removal means, however, Li et al (5617423) teaches echo cancellation (col. 30 lines 7-23). Therefore, it would have been obvious to one of ordinary skill in the art of voice transmission to modify the teachings of Henley et al (5526353) with an echo cancellation feature because it would advantageously remove unwanted feedback and echo from the signal of interest (Li et al (5617423), col. 7 lines 40-46).

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Guy et al (5940479)

Herring (6011806)

Le Damany et al (5970137)

Weng et al (5659698)

Christensen (5483528)

Arbel (4912758)

Adelmann et al (4920534)

Davis et al (5812534)

Witte et al ('Multipurpose Audio Signal Compander')

10. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Art Unit: 2645

Washington, D.C. 20231

or faxed to:

(703) 872 9314,

(for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal

Drive, Arlington, VA., Sixth Floor (Receptionist).

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Opsasnick, telephone number (703)305-4089, who is available Tuesday-Thursday, 9AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Fan Tsang, can be reached at (703)305-4895. The facsimile phone number for this group is (703)308-6306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group 2600 receptionist whose telephone number is (703) 305-4750, the 2600 Customer Service telephone number is (703) 306-0377.

December 6, 2001

mno

FAN TSANG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

